

REMARKS

Reconsideration and allowance are respectfully requested in view of the foregoing amendments and the following remarks.

Claims 1 and 4 through 14 are pending in this application.

Claims 2 and 3 have been canceled without prejudice.

Claims 11, 12 and 13 are new.

Regarding the Drawings

The drawings were objected to for failing to comply with 37 C.F.R. §1.84(p)(5) because they included reference signs not mentioned in the originally filed specification. Applicant has amended Figures 1A and 2A. In particular, in Figure 1A, Element 11 has been deleted. In Figure 2A, Element 11' has been deleted and Elements 14' and 16' have been changed to 14 and 16 respectfully. Replacement Figures that incorporate the desired changes and that comply with 37 C.F.R. §1.84 have been provided on the replacement drawing sheets identified in the top margin as "Replacement Sheet". Two marked up drawing sheets labeled "Annotated Sheet Showing Changes" accompany the replacement sheets as an Appendix to this Amendment.

With respect to Reference Sign 21 in Figure 4, applicant has amended the specification to add the Reference Sign 21 to the description. Reference 21 designates the column structure as shown in Figure 4. Applicant respectfully requests that the objection to the drawings and/or description be withdrawn.

Regarding the Section 102 Rejection

Claims 1, 2, 4 through 6 and 8 were rejected under 35 U.S.C. §102(b) for being anticipated by U.S. Patent No. 5,885,4252 Hsieh et al ("Hsieh").

Claim 1 has been amended to recite that the at least collimator has "circularly spaced sheets establishing passages through said collimator, the passages are circular and angled in a radial direction relative to the circular profile of the substrate."

Applicant respectfully points out that Hsieh does not teach or anticipate circularly spaced sheets establishing passages through said collimator. Instead, Hsieh teaches parallelly spaced sheets as shown in Hsieh Figure 8. There is no discussion in Hsieh anticipating teaching or alluding to circularly spaced sheets. As such, applicant respectfully submits that Claim 1 is not anticipated by Hsieh and respectfully requests that the §102 rejection be withdrawn.

With respect to Claim 2, this claim has been cancelled and the rejection therefore has been rendered moot.

With respect to Claims 4 through 6 and 8, these claims are each directly dependent upon Claim 1 and are therefore not anticipated by Hsieh for at least the same reasons as stated above with respect to Claim 1.

Furthermore, with respect to Claim 8, there is no discussion in Hsieh as to whether the potential of the collimator can be any of floating, on earth, or biased. Hsieh is quiet with respect as to the limitations recited in Claim 8. As such, applicant respectfully submits that Hsieh cannot be viewed as anticipatory for Claim 8. Applicant respectfully requests that the §102 rejection be withdrawn.

Claims 1 through 6, 8 and 10 were rejected under 35 U.S.C. §102(b) for being anticipated by U.S. Patent No. 5,597,462 to Cho.

Cho, like Hsieh, does not teach or anticipate a collimator having "circularly spaced sheets establishing passages through said collimator, the passages being circular and angled in a radial direction relative to the circular profile of the substrate". Cho is limited to teaching honeycomb

or tubular shaped tubes formed in a bundle. The Cho bundles are condensing devices adapted to condense metal atoms ejected from a metal target. As such, Cho does not teach or anticipate Claim 1, which recites circularly shaped sheets establishing passages through said collimator wherein the passages are circular and angled in a radial direction relative to the circular profile of the substraight. Applicant respectfully requests that the §102 rejection be withdrawn and submits that Claim 1 is ready for allowance.

Claims 2 and 3 have been canceled without prejudice rendering the rejection to them moot.

Claims 4, 5, 6 and 8 are each dependant upon Claim 1 and are therefore not anticipated for, at least, the same reasons as stated above with respect to Claim 1. Applicant respectfully submits that Claims 4, 5, 6 and 8 are ready for allowance.

Claim 10 is dependent upon Claim 1 and is therefore not anticipated by Cho for the same reasons as stated above with respect to Claim 1. Furthermore, Claim 10 recites a collimator that further comprises "a support structure comprising a plurality of second sheets placed radially with respect to the center of the collimator." Applicant points out that Cho does not teach or anticipate in any fashion such radially spaced sheets. As such, applicant respectfully submits that Claim 10 is not anticipated and respectfully requests that the §102 rejection be withdrawn.

Regarding the §103 Rejection

Claim 9 was rejected under 35 U.S.C. §103 (a) for being rendered obvious by U.S. Patent No. 5,885,425 to Hsieh et al ("Hsieh") in view of U.S. Patent No. 5,544,771 to Lee et al ("Lee").

Claim 9 is dependant upon Claim 1 which recites among other things at least one collimator having "circularly spaced sheets establishing passages through said collimator, the passages being circular and angled in a radial direction relative to the circular profile of the

substraight.” Neither Hseih nor Lee teach, allude to, or render obvious the recited collimator. Applicant respectfully submits that Claim 9 is not rendered obvious and is therefore ready for allowance.

Claim 9 was further rejected under 35 U.S.C. §103(a) for being rendered obvious by Cho in view of Lee. Claim 9, as discussed above, is dependent upon Claim 1 and is therefore not rendered obvious by Cho in view of Lee. Applicant respectfully requests that the §103 rejection be withdrawn and submits that Claim 9 is ready for allowance.

Claims 1 through 5 and 7 through 10 were rejected under 35 U.S.C. §103(a) as being rendered obvious by U.S. Patent No. 5,785,763 to Onda et al. (“Onda”) in view of Cho.

As discussed above with respect to Claim 1, Cho does not teach, allude to, or render obvious “at least one collimator having circularly spaced sheets establishing passages through the collimator, the passages being circular and angled in a radial direction relative to the circular profile of the substrate.” Furthermore, Onda does not correct the deficiencies of Cho. As such, applicant respectfully submits that Claims 1-5 and 7-10 are not rendered obvious, for at least these reasons and those discussed above. Applicant respectfully requests that the §103 rejection be withdrawn and submits that all claims are ready for allowance.

Regarding the New Claims

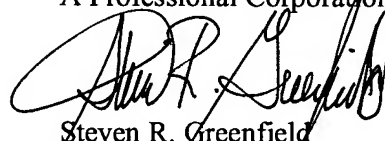
Applicant has added new Claims 11 through 13, claiming additional allowable aspects of the invention.

Should the Examiner have any further questions or comments facilitating allowance, the Examiner is invited to contact Applicant's representative indicated below to further prosecution of this application to allowance and issuance.

In view of the above, it is believed that this application is in condition for allowance, and such a Notice is respectfully requested.

Respectfully submitted,

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